

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039804.D
 Acq On : 26 Oct 2022 2:02
 Operator : SY/AP
 Sample : N5227-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 K

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL039804.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.661	10	18	24	rBV	5144481	6109768	5.92%	1.795%
2	2.694	24	28	49	rVB6	1252976	2903626	2.81%	0.853%
3	2.806	52	63	66	rBV2	894469	1585702	1.54%	0.466%
4	2.822	66	68	80	rVB3	885693	1118885	1.08%	0.329%
5	5.208	796	810	839	rBV3	1613314	3903636	3.78%	1.147%
6	6.664	1250	1263	1287	rBV	2733008	5501071	5.33%	1.616%
7	7.166	1402	1419	1441	rBV4	859867	2072063	2.01%	0.609%
8	11.471	2741	2758	2784	rBV	2814561	6589460	6.38%	1.936%
9	13.780	3457	3476	3497	rBV2	2830205	6841082	6.63%	2.010%
10	14.391	3643	3666	3688	rBV3	1592819	4497725	4.36%	1.322%
11	14.690	3729	3759	3801	rBV	35495596	103217446	100.00%	30.328%
12	15.044	3850	3869	3877	rBV3	3134289	7843747	7.60%	2.305%
13	15.121	3877	3893	3918	rVB2	21282829	57777693	55.98%	16.976%
14	15.703	4052	4074	4112	rBV2	12396995	33820581	32.77%	9.937%
15	15.912	4116	4139	4159	rVV2	18084481	47684336	46.20%	14.011%
16	16.031	4159	4176	4214	rVB2	6839561	18136594	17.57%	5.329%
17	16.584	4330	4348	4373	rVB4	666249	1796229	1.74%	0.528%
18	17.297	4549	4570	4607	rBV3	8866632	26344094	25.52%	7.740%
19	20.223	5447	5480	5503	rBV3	860927	2598013	2.52%	0.763%

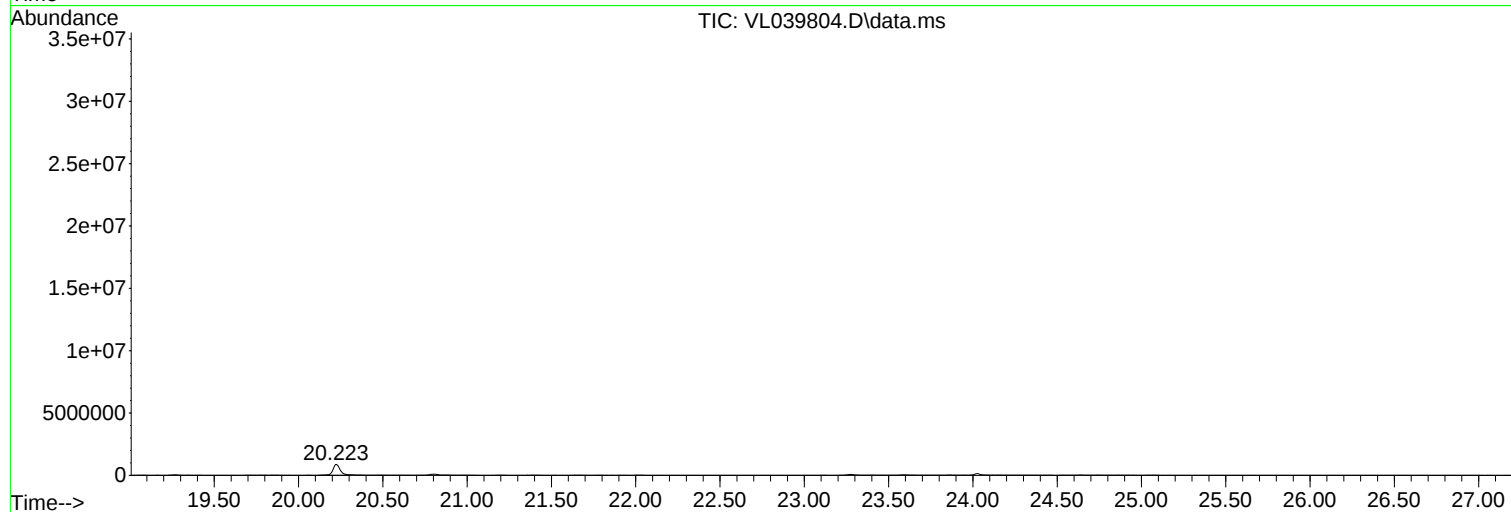
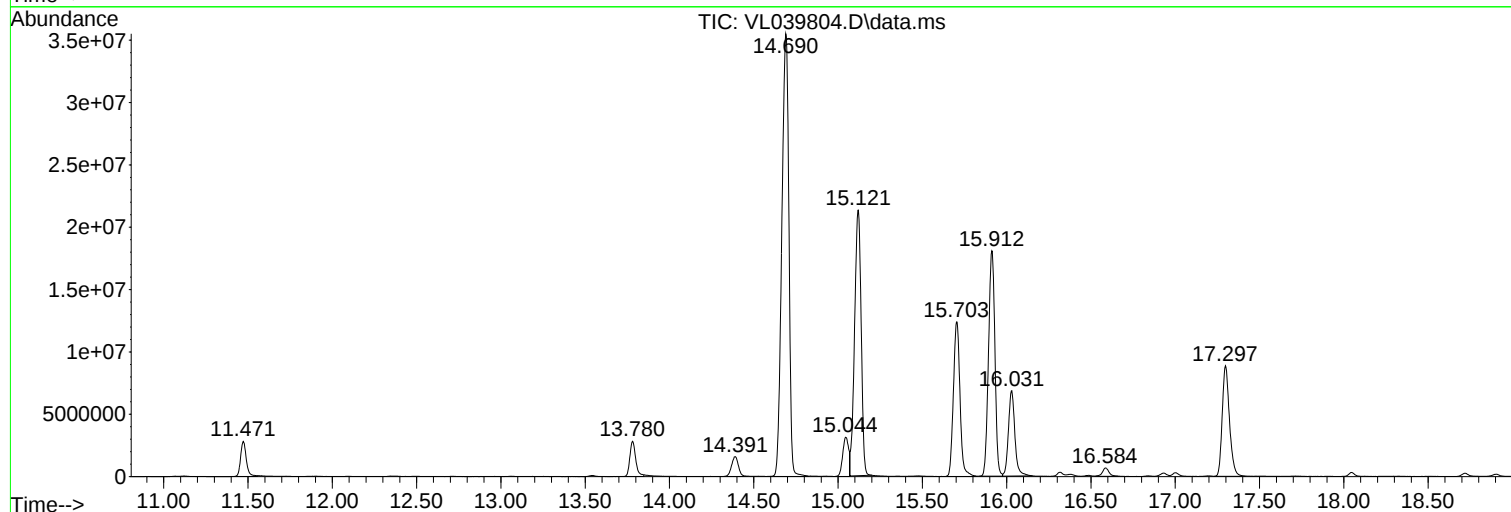
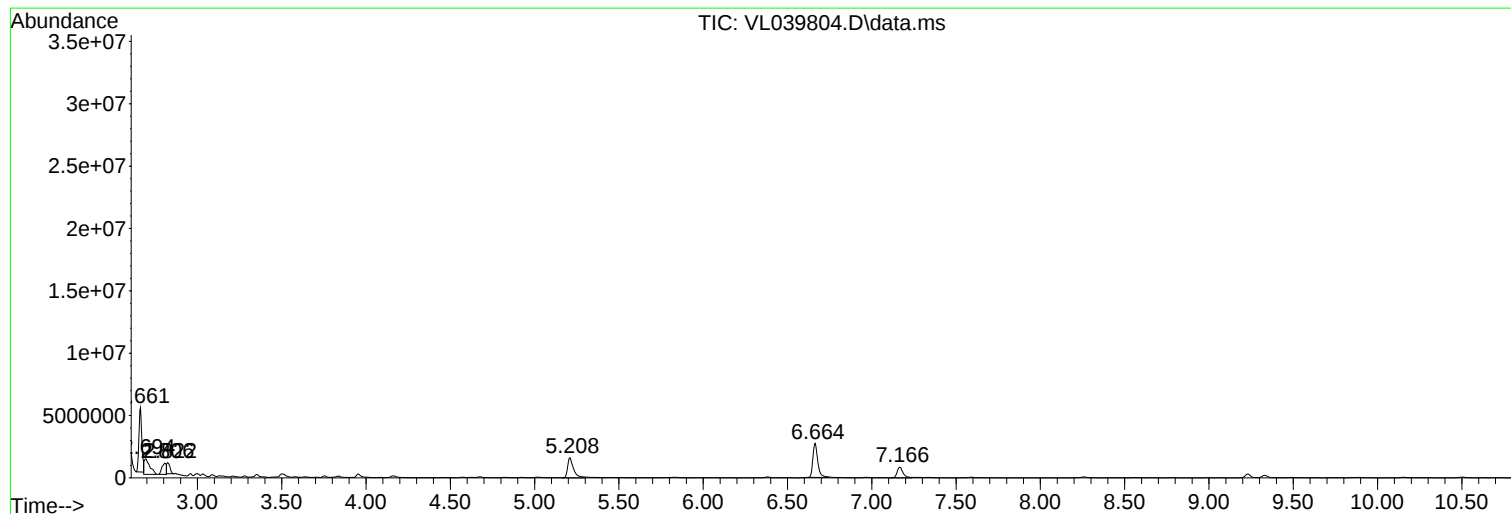
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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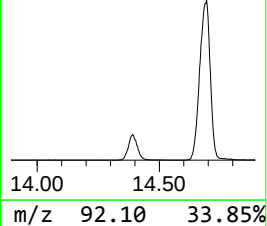
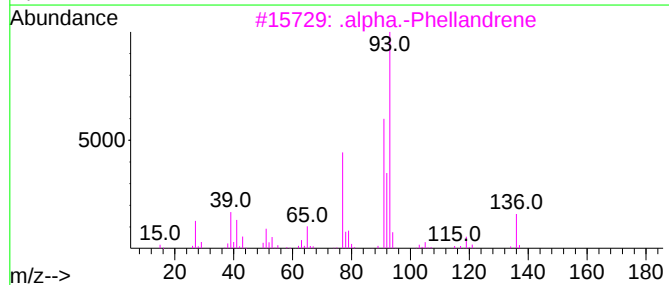
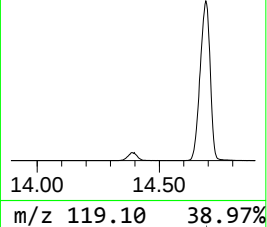
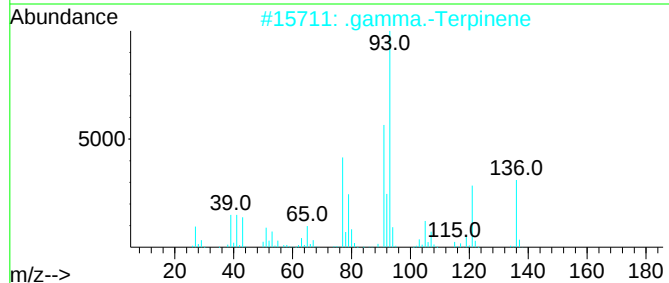
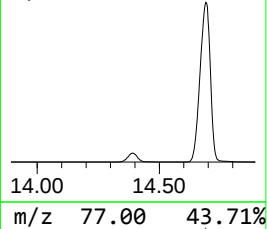
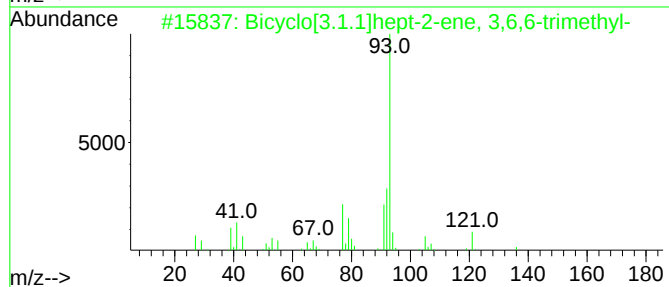
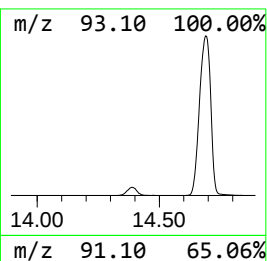
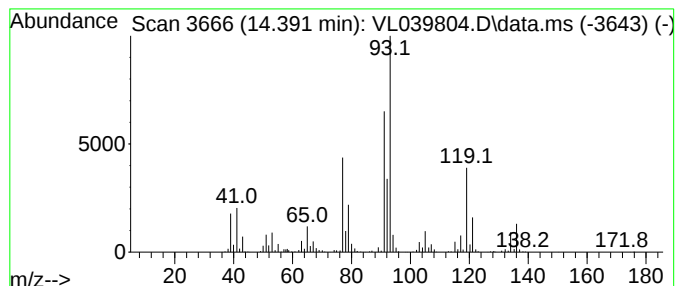
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Bicyclo[3.1.1]hept-2-ene, 3... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.391	6.83 ppbv	4497730	Chlorobenzene-d5	11.471

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	76
2			.gamma.-Terpinene	136	C10H16	000099-85-4	68
3			.alpha.-Phellandrene	136	C10H16	000099-83-2	64
4			.alpha.-Pinene	136	C10H16	000080-56-8	60
5			Bicyclo[3.1.0]hex-2-ene, 2-methy...	136	C10H16	002867-05-2	58



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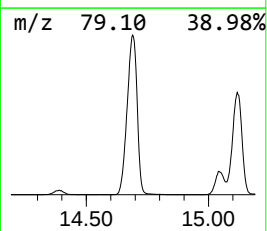
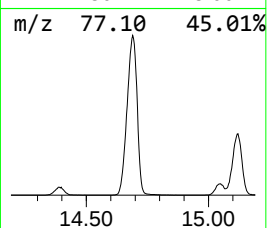
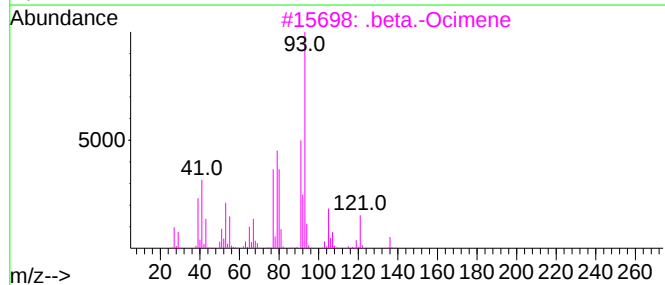
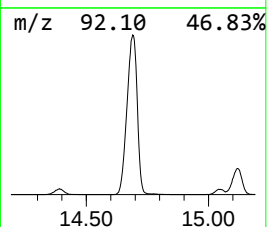
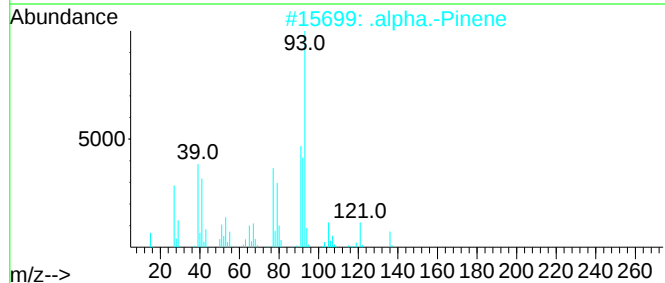
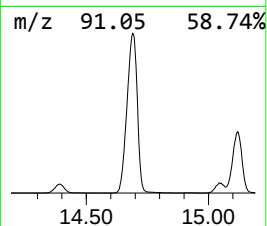
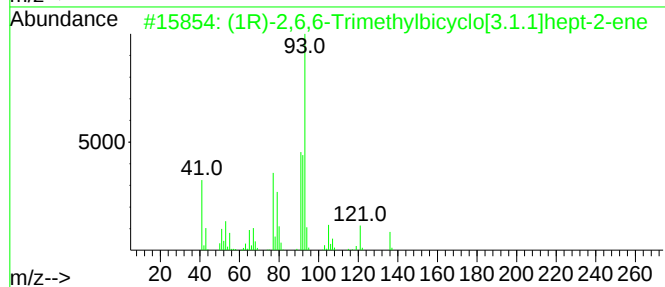
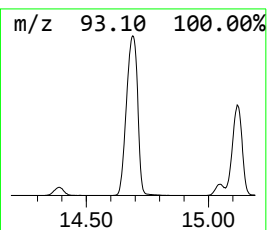
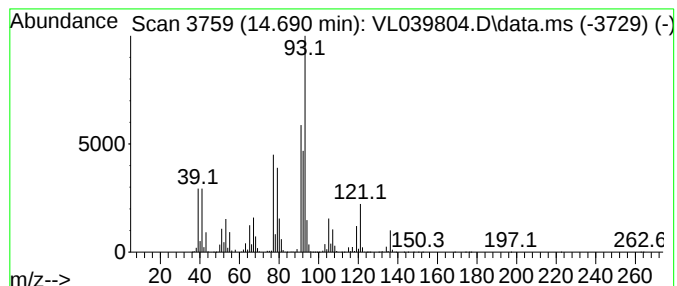
Instrument :
MSVOA_L
ClientSampleId :
K

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.690	156.64 ppbv	103217000	Chlorobenzene-d5	11.471	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	96
2	.alpha.-Pinene	136	C10H16	000080-56-8	94
3	.beta.-Ocimene	136	C10H16	013877-91-3	87
4	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	83
5	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	83



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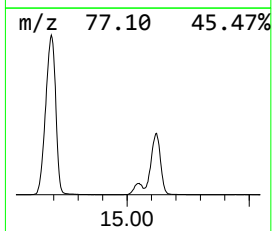
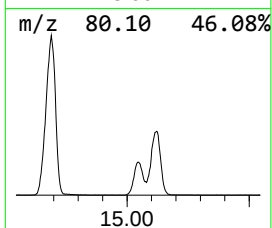
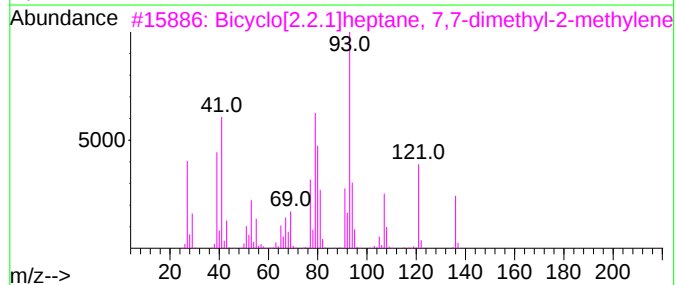
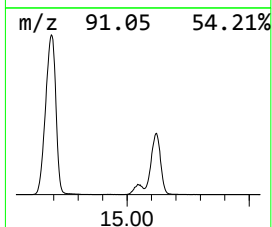
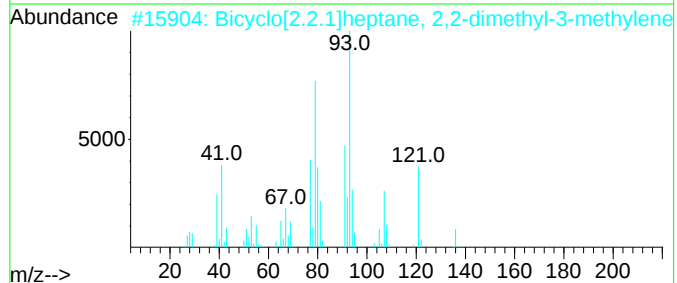
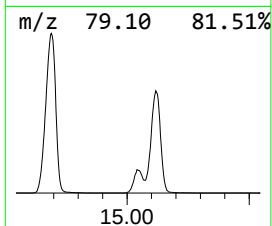
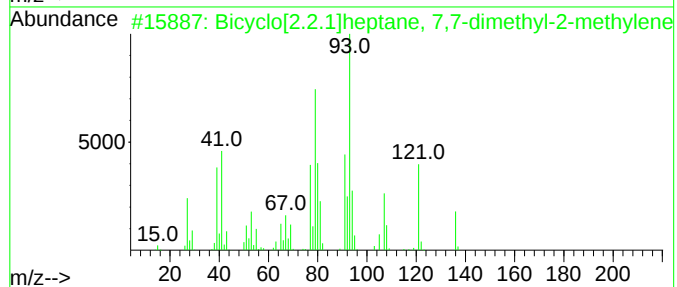
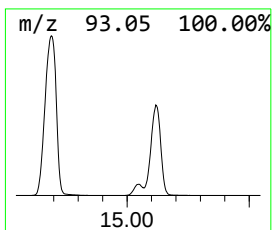
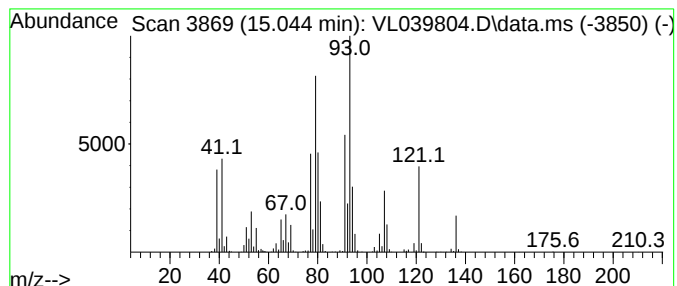
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Bicyclo[2.2.1]heptane, 7,7-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.044	11.90 ppbv	7843750	Chlorobenzene-d5	11.471

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[2.2.1]heptane, 7,7-dimet...	136	C10H16	000471-84-1	98
2			Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-03-6	98
3			Bicyclo[2.2.1]heptane, 7,7-dimet...	136	C10H16	000471-84-1	93
4			Bicyclo[2.2.1]heptane, 7,7-dimet...	136	C10H16	000471-84-1	93
5			Cyclohexene, 5-methyl-3-(1-methy...	136	C10H16	056816-08-1	76



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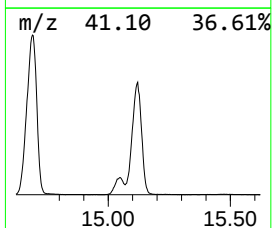
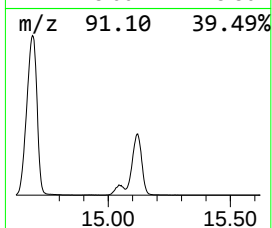
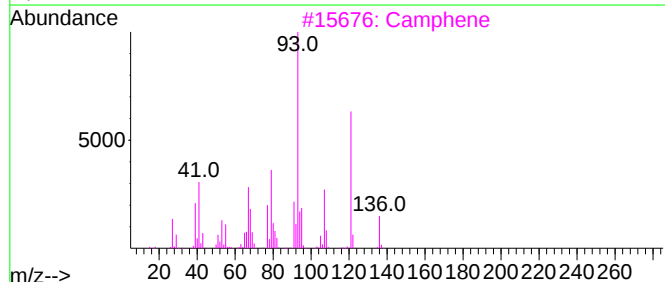
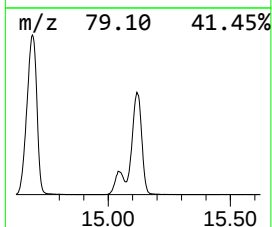
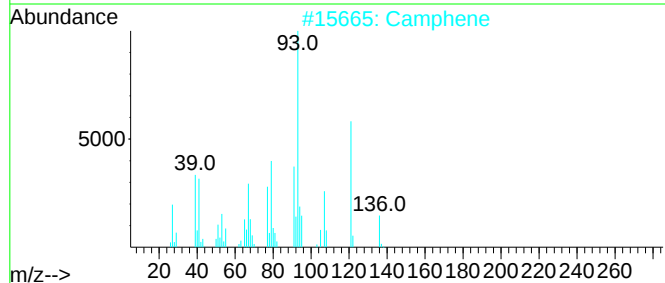
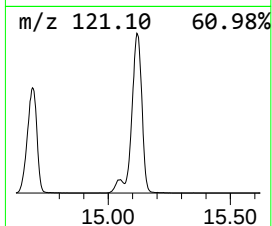
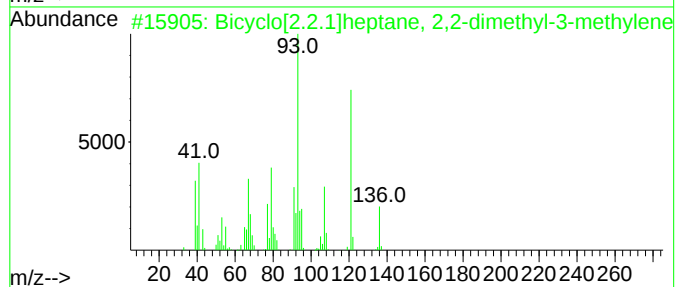
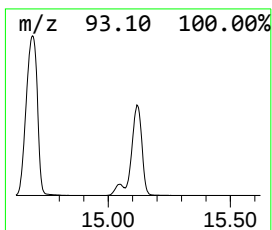
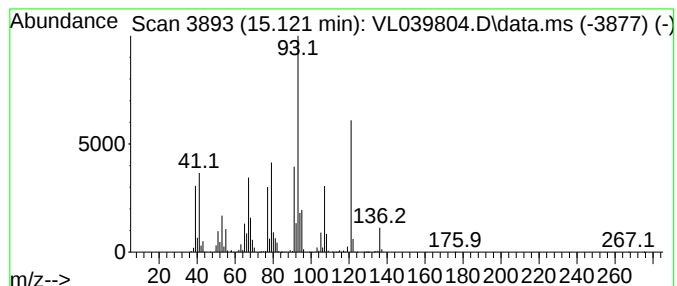
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	87.68 ppbv	57777700	Chlorobenzene-d5	11.471

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-04-7	95
2			Camphene	136	C10H16	000079-92-5	95
3			Camphene	136	C10H16	000079-92-5	95
4			Camphene	136	C10H16	000079-92-5	94
5			1,3,6-Heptatriene, 2,5,5-trimethyl-	136	C10H16	029548-02-5	90



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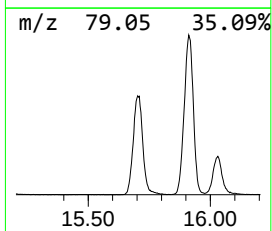
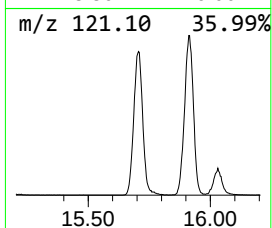
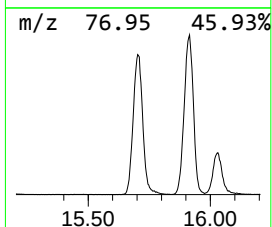
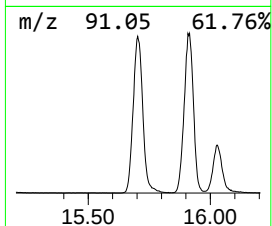
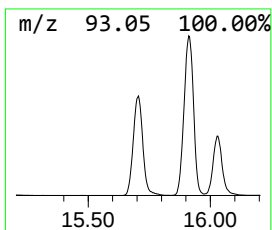
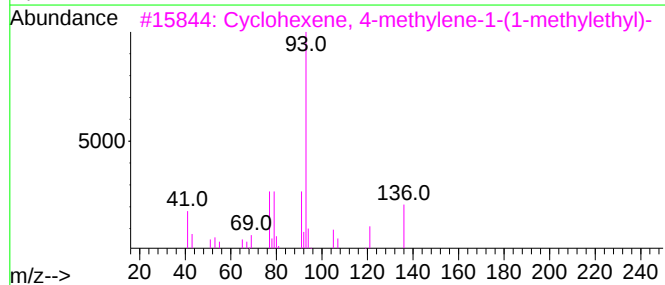
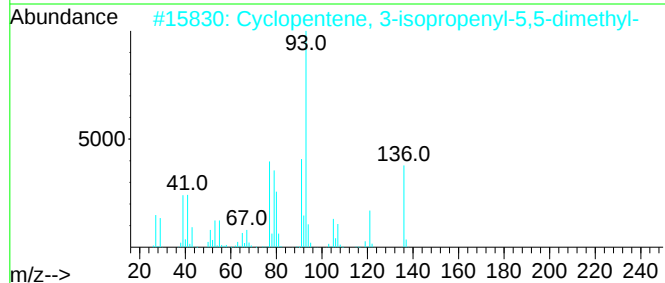
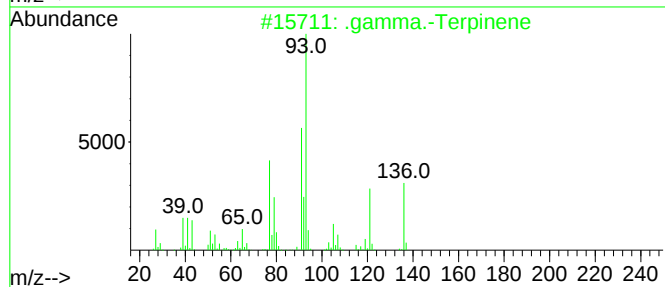
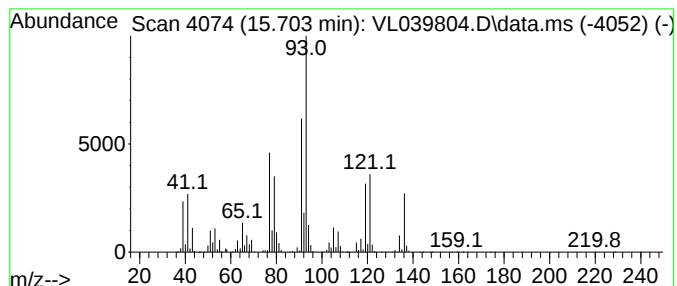
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 .gamma.-Terpinene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.703	51.33 ppbv	33820600	Chlorobenzene-d5	11.471

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		.gamma.-Terpinene	136	C10H16	000099-85-4	94
2		Cyclopentene, 3-isopropenyl-5,5-...	136	C10H16	1000162-25-4	87
3		Cyclohexene, 4-methylene-1-(1-me...	136	C10H16	000099-84-3	87
4		Cyclopropane, 1,1-dimethyl-2-(3-...	136	C10H16	068998-21-0	87
5		.alpha.-Phellandrene	136	C10H16	000099-83-2	76



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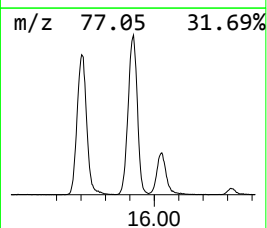
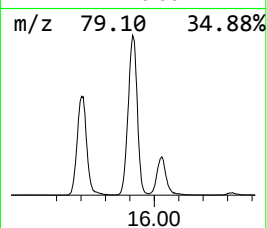
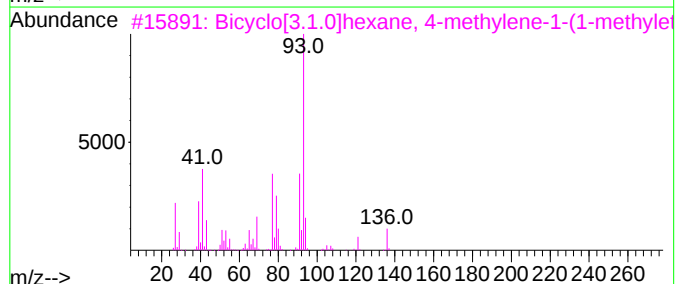
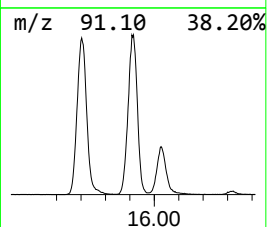
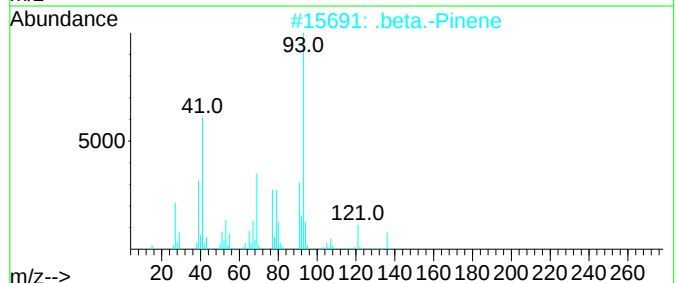
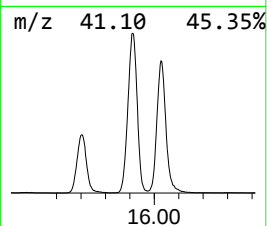
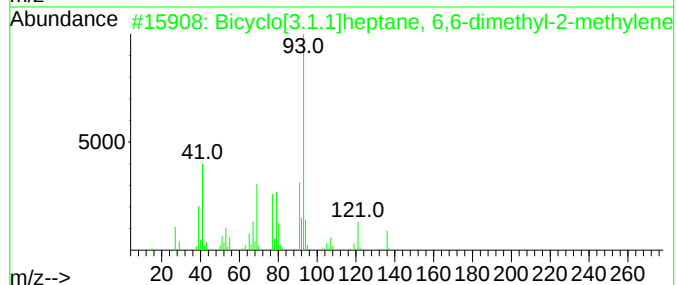
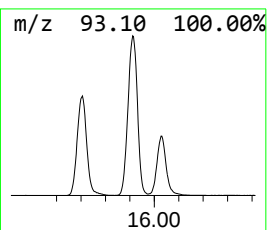
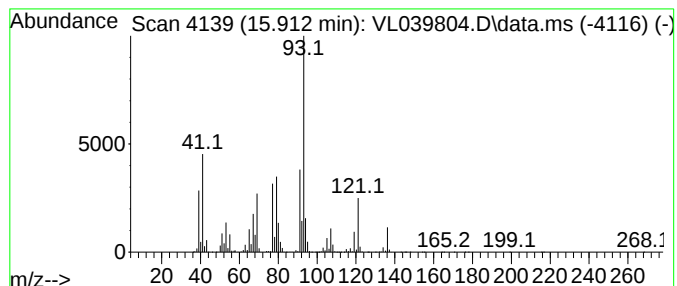
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.912	72.36 ppbv	47684300	Chlorobenzene-d5	11.471

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	95
2			.beta.-Pinene	136	C10H16	000127-91-3	94
3			Bicyclo[3.1.0]hexane, 4-methylen...	136	C10H16	003387-41-5	87
4			Bicyclo[2.2.1]hept-2-ene, 1,7,7-...	136	C10H16	000464-17-5	87
5			Cyclohexane, 1-methylene-4-(1-me...	136	C10H16	000499-97-8	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
Data File : VL039804.D
Acq On : 26 Oct 2022 2:02
Operator : SY/AP
Sample : N5227-11
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
K

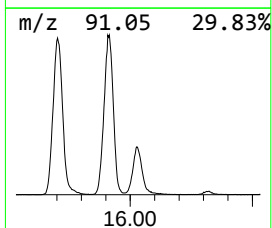
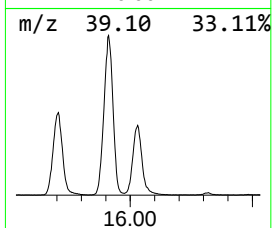
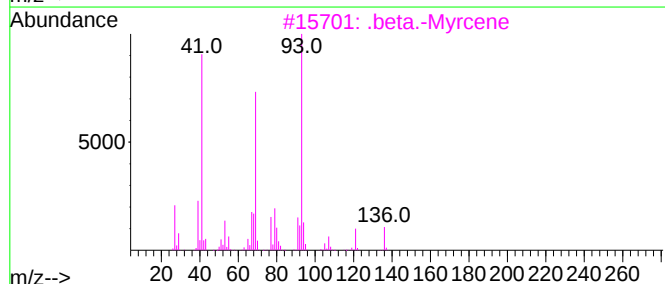
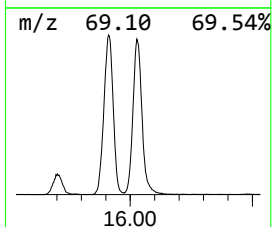
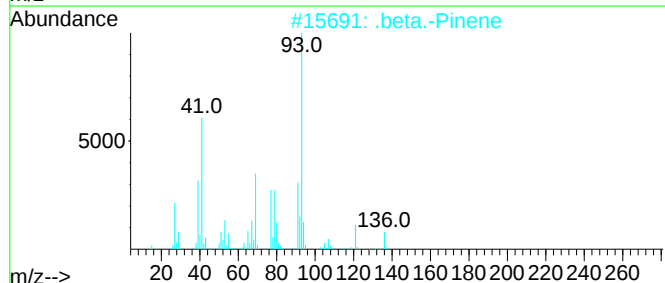
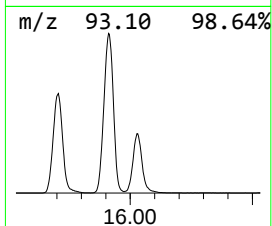
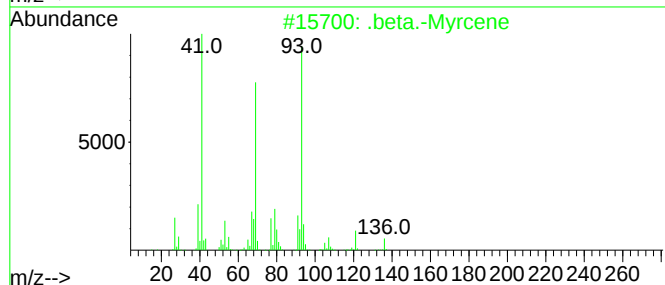
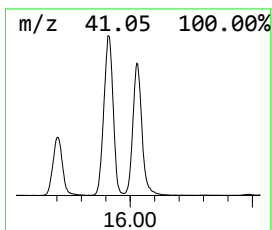
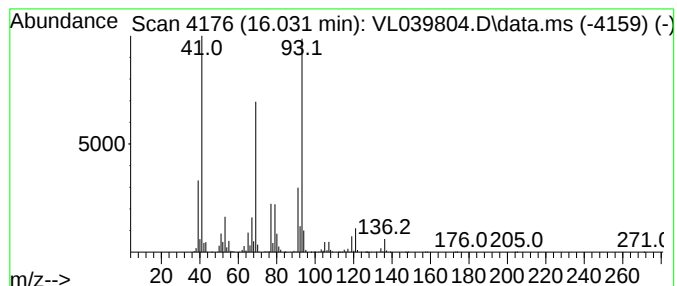
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 .beta.-Myrcene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.031	27.52 ppbv	18136600	Chlorobenzene-d5	11.471

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		.beta.-Myrcene	136	C10H16	000123-35-3	93
2		.beta.-Pinene	136	C10H16	000127-91-3	91
3		.beta.-Myrcene	136	C10H16	000123-35-3	90
4		.alpha.-Pinene	136	C10H16	000080-56-8	90
5		.alpha.-Pinene	136	C10H16	000080-56-8	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
Data File : VL039804.D
Acq On : 26 Oct 2022 2:02
Operator : SY/AP
Sample : N5227-11
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

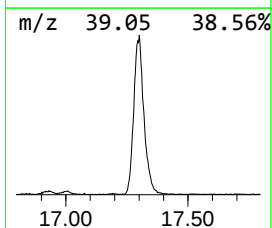
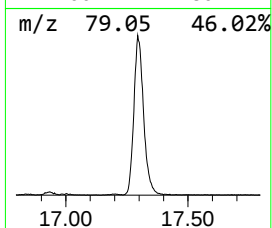
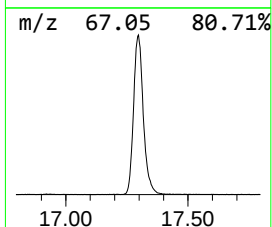
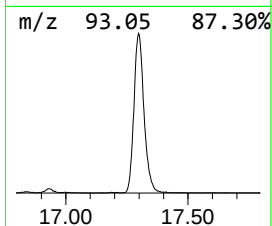
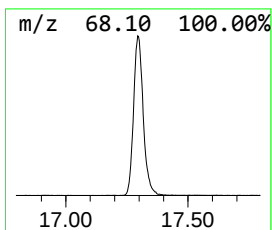
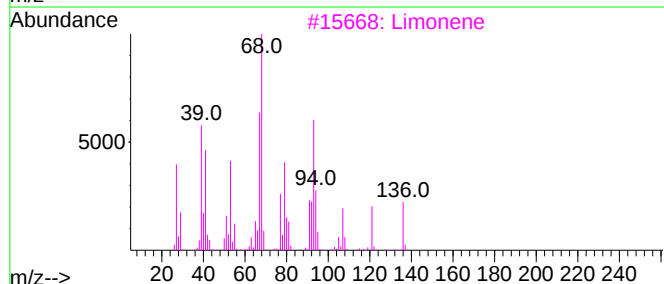
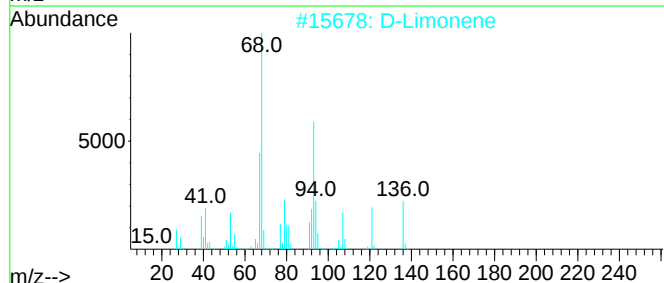
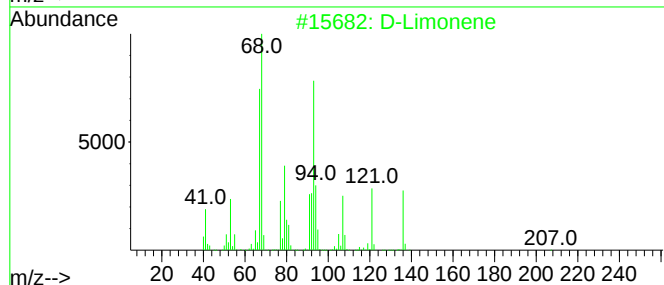
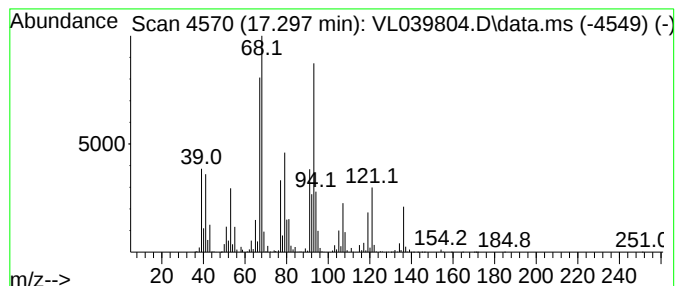
Instrument :
MSVOA_L
ClientSampleId :
K

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 D-Limonene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.297	39.98 ppbv	26344100	Chlorobenzene-d5	11.471	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	96
2	D-Limonene	136	C10H16	005989-27-5	94
3	Limonene	136	C10H16	000138-86-3	94
4	D-Limonene	136	C10H16	005989-27-5	93
5	Limonene	136	C10H16	000138-86-3	89



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
Data File : VL039804.D
Acq On : 26 Oct 2022 2:02
Operator : SY/AP
Sample : N5227-11
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
K

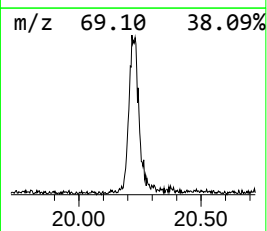
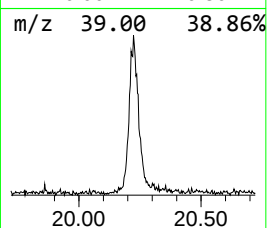
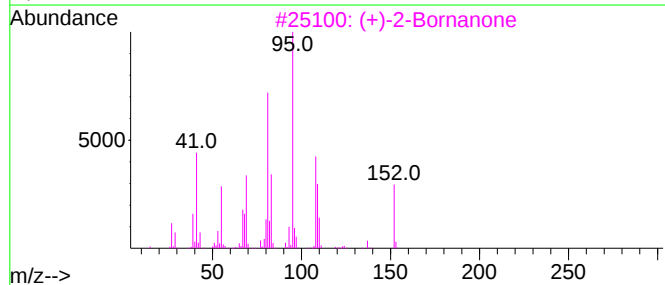
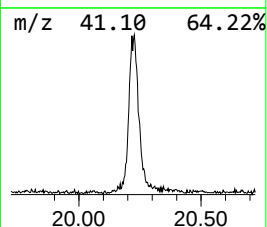
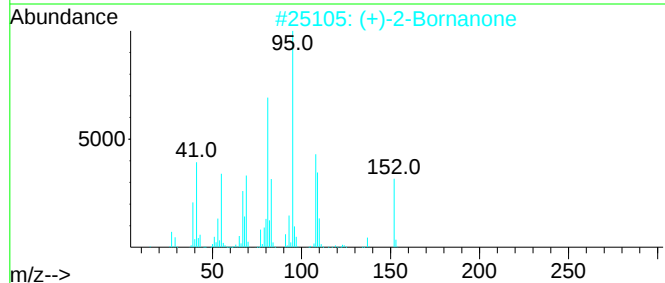
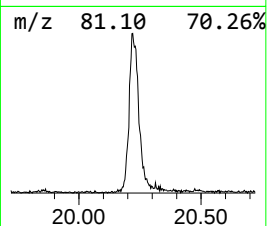
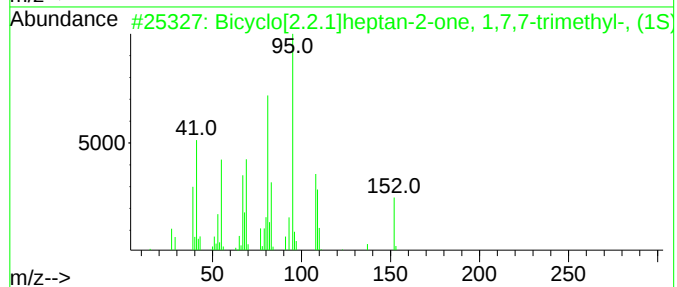
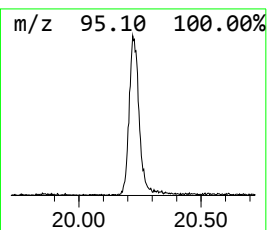
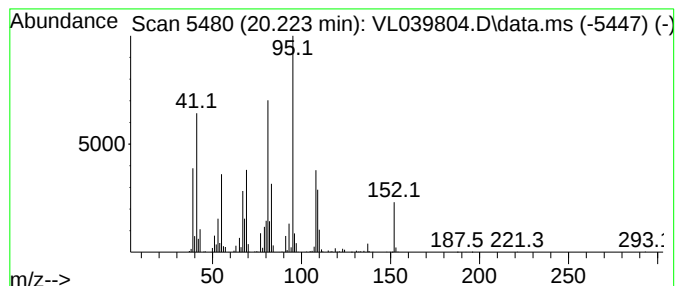
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.223	3.94 ppbv	2598010	Chlorobenzene-d5	11.471

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	98
2			(+)-2-Bornanone	152	C10H16O	000464-49-3	97
3			(+)-2-Bornanone	152	C10H16O	000464-49-3	96
4			(+)-2-Bornanone	152	C10H16O	000464-49-3	96
5			Camphor	152	C10H16O	000076-22-2	96



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
Data File : VL039804.D
Acq On : 26 Oct 2022 2:02
Operator : SY/AP
Sample : N5227-11
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
K

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Bicyclo[3.1.1]h...	14.391	6.8	ppbv	4497730	3	11.471	6589460	10.0
(1R)-2,6,6-Trim...	14.690	156.6	ppbv	103217000	3	11.471	6589460	10.0
Bicyclo[2.2.1]h...	15.044	11.9	ppbv	7843750	3	11.471	6589460	10.0
Bicyclo[2.2.1]h...	15.121	87.7	ppbv	57777700	3	11.471	6589460	10.0
.gamma.-Terpinene	15.703	51.3	ppbv	33820600	3	11.471	6589460	10.0
Bicyclo[3.1.1]h...	15.912	72.4	ppbv	47684300	3	11.471	6589460	10.0
.beta.-Myrcene	16.031	27.5	ppbv	18136600	3	11.471	6589460	10.0
D-Limonene	17.297	40.0	ppbv	26344100	3	11.471	6589460	10.0
Bicyclo[2.2.1]h...	20.223	3.9	ppbv	2598010	3	11.471	6589460	10.0